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NATIONAL PHOTOGRAPHIC  
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## Summary Report

# NEW MODIFICATIONS TO THE PETYA-CLASS FFL, KALININGRAD SHIPYARD STATE 820, USSR (S)

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(See inside cover)

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## NEW MODIFICATIONS TO THE PETYA-CLASS FFL, KALININGRAD SHIPYARD STATE 820, USSR (S)

(TSR) Two Petya-class light frigates (FFL), a Petya I and a Petya II, were at the Kaliningrad Shipyard State 820 [REDACTED], USSR. Modifications involved the addition of unique deckhouses, which will probably house antisubmarine warfare (ASW) sensors. The specific type of sensor for these units has not yet been determined.

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(TSR) The Petya I FFL entered Kaliningrad Shipyard 820 for modification in early 1976. A deckhouse (Figure 1) was built on the stern of the ship and was almost externally complete [REDACTED]. The main body of the deckhouse [REDACTED]. An additional [REDACTED] section slopes aft to the deck and tapers in to a [REDACTED]. The aft edge of the deckhouse is [REDACTED] from the stern.

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(TSR) In September 1976 the first Petya II FFL to be modified at Kaliningrad was observed along the quay. At that time the after bank of torpedo tubes had been removed, exposing the mounting ring. Subsequent to this observation of the Petya, a deckhouse (Figure 2) was under construction on the aft deck and was almost complete [REDACTED]. The deckhouse appears to consist of two joined, flat, rectangular sections. The forward section [REDACTED]. The aft section [REDACTED] and is aligned with the forward section on a common center. This deckhouse is also [REDACTED] from the stern.

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(TSR) Kaliningrad Shipyard State 820 has converted Petya-class frigates to accommodate a variety of underwater sensors for over a decade. The conversion programs produced two variable depth sonar prototypes, a multiship conversion to the Petya III configuration, and the unique Petya I FFL with its raised cable guide, which had originally been the Petya III prototype. The latest modifications to the Petya-class frigates showed the continued interest and activity that the Soviet Union has in underwater sensors, especially those designed for ASW.

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

| <i>IF YOU HAVE</i> | <i>MULTIPLY BY</i> | <i>TO OBTAIN</i> |
|--------------------|--------------------|------------------|
| MILLIMETERS        | 0.0394             | INCHES           |
| CENTIMETERS        | 0.3937             | INCHES           |
| INCHES             | 25.4000            | MILLIMETERS      |
| INCHES             | 2.5400             | CENTIMETERS      |
| FEET               | 0.3048             | METERS           |
| FEET               | 0.0003             | KILOMETERS       |
| YARDS              | 0.9144             | METERS           |
| METERS             | 3.2808             | FEET             |
| METERS             | 0.0005             | MILES(NAUTICAL)  |
| METERS             | 1.0936             | YARDS            |
| KILOMETERS         | 3280.8400          | FEET             |
| KILOMETERS         | 0.6214             | MILES(STATUTE)   |
| KILOMETERS         | 0.5400             | MILES(NAUTICAL)  |
| MILES(STATUTE)     | 1.6093             | KILOMETERS       |
| MILES(NAUTICAL)    | 6076.1154          | FEET             |
| MILES(NAUTICAL)    | 1.8520             | KILOMETERS       |
| MILES(NAUTICAL)    | 1852.0000          | METERS           |

### UNITS OF MASS

| <i>IF YOU HAVE</i> | <i>MULTIPLY BY</i> | <i>TO OBTAIN</i> |
|--------------------|--------------------|------------------|
| KILOGRAMS          | 2.2046             | POUNDS(AVOIR.)   |
| POUNDS(AVOIR.)     | 0.4536             | KILOGRAMS        |
| SHORT TONS         | 0.9072             | METRIC TONS      |
| METRIC TONS        | 1.1023             | SHORT TONS       |
| METRIC TONS        | 0.9842             | LONG TONS        |
| LONG TONS          | 1.0160             | METRIC TONS      |

### UNITS OF VOLUME

| <i>IF YOU HAVE</i> | <i>MULTIPLY BY</i> | <i>TO OBTAIN</i> |
|--------------------|--------------------|------------------|
| LITERS             | 0.2642             | GALLONS          |
| LITERS             | 0.0063             | BARRELS(POL)     |
| LITERS             | 0.0010             | CUBIC METERS     |
| GALLONS            | 3.7854             | LITERS           |
| GALLONS            | 0.1337             | CUBIC FEET       |
| GALLONS            | 0.0238             | BARRELS(POL)     |
| GALLONS            | 0.0038             | CUBIC METERS     |
| BUSHELS            | 0.0352             | CUBIC METERS     |
| CUBIC FEET         | 7.4805             | GALLONS          |
| CUBIC FEET         | 0.1781             | BARRELS(POL)     |
| CUBIC FEET         | 0.0283             | CUBIC METERS     |
| CUBIC YARDS        | 0.7646             | CUBIC METERS     |
| BARRELS(POL)       | 158.9873           | LITERS           |
| BARRELS(POL)       | 42.0000            | GALLONS          |
| BARRELS(POL)       | 5.6146             | CUBIC FEET       |
| BARRELS(POL)       | 0.1590             | CUBIC METERS     |
| CUBIC METERS       | 1000.0000          | LITERS           |
| CUBIC METERS       | 264.1721           | GALLONS          |
| CUBIC METERS       | 35.3147            | CUBIC FEET       |
| CUBIC METERS       | 28.3776            | BUSHELS          |
| CUBIC METERS       | 6.2898             | BARRELS(POL)     |
| CUBIC METERS       | 1.3080             | CUBIC YARDS      |

### UNITS OF AREA

| <i>IF YOU HAVE</i> | <i>MULTIPLY BY</i> | <i>TO OBTAIN</i>   |
|--------------------|--------------------|--------------------|
| SQUARE CENTIMETERS | 0.1550             | SQUARE INCHES      |
| SQUARE INCHES      | 6.4516             | SQUARE CENTIMETERS |
| SQUARE FEET        | 0.0929             | SQUARE METERS      |
| SQUARE YARDS       | 0.8361             | SQUARE METERS      |
| SQUARE METERS      | 10.7639            | SQUARE FEET        |
| SQUARE METERS      | 1.1960             | SQUARE YARDS       |
| SQUARE METERS      | 1.0000             | CENTARES           |
| SQUARE METERS      | 0.0002             | ACRES              |
| SQUARE METERS      | 0.0001             | HECTARES           |
| ACRES              | 4046.8564          | SQUARE METERS      |
| ACRES              | 0.4047             | HECTARES           |
| HECTARES           | 10000.0000         | SQUARE METERS      |
| HECTARES           | 2.4711             | ACRES              |

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